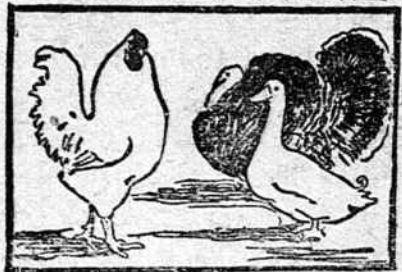


POULTRY



COOP FOR YOUNG CHICKENS

Illinois Man Arranges Device of Galvanized Iron, Which Is Rain, Rat and Vermin Proof.

A coop that provides a safe and sanitary home for young chickens has been invented by an Illinois man. It is made of galvanized iron, with a circular body and a peaked roof, with over-hanging eaves. It is rain, rat



Coop for Little Chicks.

and vermin proof. The apertures for ventilation are so arranged that vermin cannot crawl up the sides and enter them, and the openings through which the mother hen and the little chicks pass in and out are in a slidable section, so that the egress of both, or of the hen only, can be cut off at will. Even when closed, however, the ventilation is such that the air is always pure. Another advantage of this coop is that the top, bottom and sides are detachable, and the whole affair can be knocked down in an instant.

GOOD FOOD FOR POULTRY

There Should be a Variety and While Some Grains are Favored Others Are Not—Grit Needed.

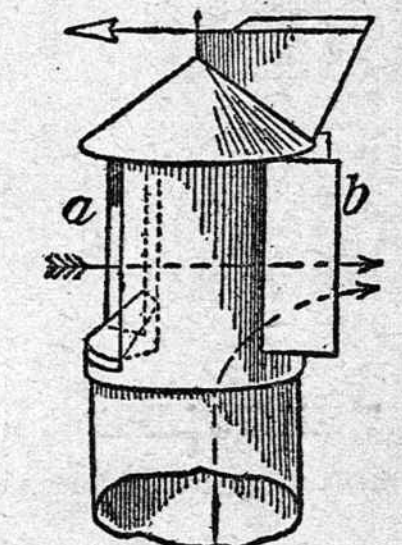
Poultry food should be palatable. Some grains are the favorite food of chickens, while others are not. Rye may be fed, but it is not generally liked by poultry, and should never be made the principal feed. It may be used in a mixture with other grains, and will be eaten by the flock. Relish is one of the factors of proper feeding.

Food should be varied. The best commercial poultry-foods on the market are combinations of the common farm grains. There are varying amounts of each, according to nutritive value and cheapness—wheat, oats, corn, barley, rye, millet-seed, caneseed, field peas, buckwheat, sunflowerseeds, and grass-seeds. With these are combined grit, shells and charcoal. These foods produce good results, mainly because of the variety. With a little instruction, one could make such a combination, for the flock, of grains on the farm.

VENTILATOR FOR HEN HOUSE

Many Buildings Prove Quite Unsatisfactory Because They Are Not Properly Ventilated.

Poultry houses are often unsatisfactory solely because they are badly ventilated. Of course it is out of the question always to tear them down and build anew or to install the King system of ventilation, so some form of ventilator may be the best device to adopt. In the illustration is shown a force draft ventilator built like a revolving stovepipe chimney top, says the Orange Judd farmer. The wing



Novel Ventilator

with the arrow on top turns the top so the opening, a, always faces the wind. Some of the wind passes through this opening and out of the top at b. It thus creates a draft up the flue, c, and thus ventilates the poultry house below. The principle is the same as that used in the atomizer.

Indigestion in Sheep.
Indigestion is a very common ailment among sheep during the winter months, and attacks are frequent, especially while the flock is confined to dry feed. The ailment may be characterized as a failure of the natural changes which feed undergoes in the alimentary canal. Sheep confined to a dry, narrow ration, without any form of succulent food, are more apt to suffer attacks of indigestion than when on pasture. Ordinarily the ailment is not serious, but if permitted to run its course takes a more acute stage and frequently results fatally.

You will get relief from Pain when Dr. Miller's Anti-Pain Pills are taken.

FARM and GARDEN



TOAD IS GARDENER'S FRIEND

Nearly Every Element of Its Food Is Made Up of Insects Which Are Pests in the Fields.

The common toad has been the subject of ridicule, contempt and superstition for centuries past. Nature has denied beauty and attractiveness to this little creature. To many people it is more repulsive than its relatives, the reptiles. We should learn to pro-



The Garden Toad.

tect the toad and respect him for the good he does to us all. Some observing gardeners have said that a toad is easily worth \$10 in a garden. The point of the matter is that practically all of the toad's diet is of animal origin. Nearly every element of its food is made up of insects which are pests in fields and gardens.

We have heard much of the value of birds and of the necessity of protecting them. It is time we began to care for the toad, as well, for their capacity for insect meat is truly astonishing, writes F. B. Swingle in the Northwestern Agriculturist. Examination of 149 toads' stomachs proved that 98 per cent. of their food was of the sort indicated above. Cutworms, ants, bugs and beetles, spiders, potato bugs, thousand-legged worms, weevils, tent caterpillars and grasshoppers were eaten by thousands. Wire worms and army worms, crickets and cucumber bugs, rose bugs and plum curculio were relished just as well. The gypsy moth, the cabbage moth and grape caterpillars constitute his favorite food in certain localities. And it is remarkable what storage capacity is exhibited by the toad. In one stomach 77 thousand-legged worms were found; in another 37 tent caterpillars; in one 65 gypsy moth, and in another 55 army worms. Of course it would be difficult to determine the number of insects that a toad at liberty would consume in an entire season. It is sufficient to know that they are well worth protecting.

SHARPENS THE LAWN MOWER

Pennsylvania Man Invents Apparatus for Revolving Blades Against Wall of Abrading Material.

Heretofore the customary way to sharpen a lawn mower was to take a whetstone and rub it back and forth along the blades. A Pennsylvania man has invented an apparatus for sharpening mowers which should prove less troublesome and quite as effective. A base has standards to receive the shaft of the rotary blade of a lawn mower and a cogged wheel, with a handle, to engage the wheel on the shaft and turn the latter. An inclined wall of abrading material is arranged so that it can be fixed to meet the revolving blades, and as they pass over its rough surface they are



Lawn Mower Sharpener.

sharpened quickly and well, with no further trouble to the gardener than the turning of the handle that causes the shaft to revolve.

Gardening With a Wheel Hoe.
The real pleasures of gardening remain unknown to a person who has never used a wheel hoe. This modern invention stimulates good gardening. By its use a person can cultivate his whole garden before breakfast, and feel proud of the accomplishment. The experienced gardener will use it often, and thus keep the soil of his garden in ideal condition.

Ducks that are hatched in an incubator can be cared for the same as those hatched by hens or ducks in the natural way.

Goose eggs will hatch in an incubator, but not so well as fowls' eggs unless the incubator is especially built for that purpose.

The Leghorns, Minorcas or any of the breeds of the Mediterranean class are non-sitters and are bred for the purpose of laying.

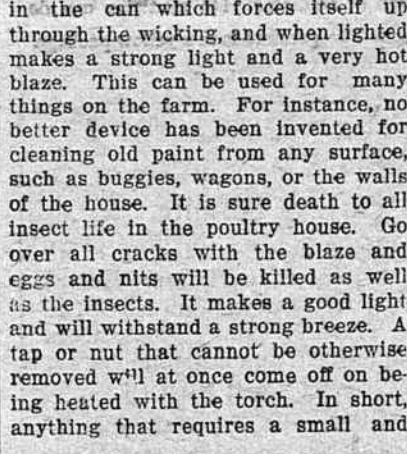
One fatal mistake made at the end of the hatch is to keep the door of the incubator open too long after the eggs have begun to pip.

The poultry business requires study and constant attention, the same as any other business. First efforts are rarely ever successful.

SURE DEATH TO ALL INSECTS

Home-Made Torch Shown In Illustration Should Find Place on Every Farm—Used for Many Things.

The home-made torch herewith illustrated, or one similar in construction, should find a place on every farm, says the Homestead. Such torches are for sale in hardware stores, but the prices asked for them seem rather high, and then they are mostly used by painters and the average farmer seldom if ever gets sight of one of them. To make the torch shown in the cut, secure any stout can that will hold a pint or more, preferably an old oil can with a handle, drill a hole in the center and place a short piece of one-fourth-inch iron pipe in the hole as shown. It should extend to within half an inch of the bottom of the can and project above the top about three or four inches. Place a cap on the top and drill several very small holes in same. There should be about five holes, with one in the top of the can. Make the holes one-thirtieth or one-sixteenth of an inch in diameter. Fill the pipe with candle wicking and fasten tightly in place. It should be soldered. Fill can about four-fifths full of gasoline and light same by heating the top of can and pipe with a small blaze. If the weather is not too cold this can be done with matches. The heat forms a gas in the can which forces itself up through the wicking, and when lighted makes a strong light and a very hot blaze. This can be used for many things on the farm. For instance, no better device has been invented for cleaning old paint from any surface, such as buggies, wagons, or the walls of the house. It is sure death to all insect life in the poultry house. Go over all cracks with the blaze and eggs and nits will be killed as well as the insects. It makes a good light and will withstand a strong breeze. A tap or nut that cannot be otherwise removed will at once come off on being heated with the torch. In short, anything that requires a small and

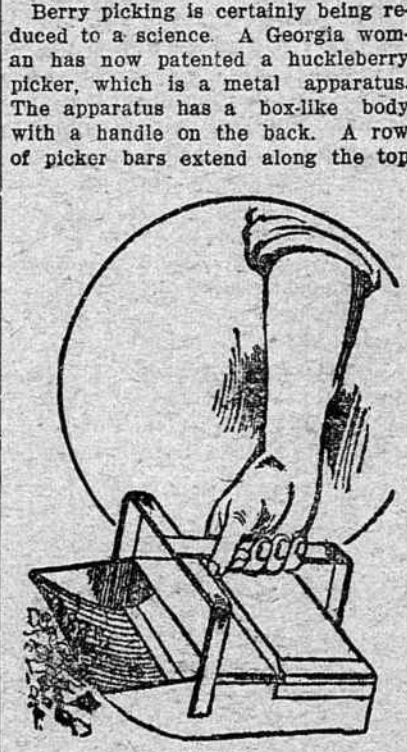


A Handy Torch.

safe heat can be heated or burned with this torch. Any tinner will make the torch for 25 cents if you cannot make one yourself. It is perfectly safe and cannot explode.

HANDY PICKER FOR BERRIES
Georgia Woman Invents Device With Row of Little Bars That Scrapes Fruit Into Box.

Berry picking is certainly being reduced to a science. A Georgia woman has now patented a huckleberry picker, which is a metal apparatus. The apparatus has a boxlike body with a handle on the back. A row of picker bars extend along the top



New Huckleberry Picker.

and curve so that anything scraped off by the bars will roll down them into the hollow body, where a barrier inside prevents it rolling out again. In this way one person can pick huckleberries from as many bushes in a day as several dozen persons could pick by hand, meaning a decided saving in time and labor. Another advantage of this picker is that it affords some protection to the hand from the snakes that so often infest huckleberry patches.

POULTRY NOTES

Mongrel fowls should not be kept for egg production because the eggs will be uniform neither in color nor size.

Where there is no other chance for early green picking a patch of oats sown now will answer the purpose well.

It is better to go slow and heat up the eggs in an incubator in 24 hours than to get in a hurry and do it in two hours.

February hatched chickens are apt to molt in the fall, and will not be worth anything for egg production in winter.

Any sharp stones will answer for grit, if they are smaller than a grain of corn, and larger than a grain of wheat.

A good, well-balanced, laying ration: Two parts bran, one part corn meal, one part alfalfa meal, and one part beef scrap.

The Great Football Game

At Westmoreland College That Brought Revenge

By ELLEN R. CHANDLER
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It would be impossible to give a correct catalogue of the reasons why the male students of Westmoreland became antagonistic to co-eds pursuing the college course with them. Some part little misses, tossing their heads, declared that it was because the girls wouldn't flirt; that they themselves had turned their backs upon sophomores who had more assurance than brains. Others averred that the presence of the women made the college a "henery" instead of a field for "stags." A third lot laid the whole movement to the fact that several of the girls took scholarships away from as many young men. Certain it is that one young woman of remarkable facility for learning captured a prize that all the honor men were striving for.

Be that as it may, the antagonistic spirit prevailed, and it was determined by the board of management that the class of '10 should be the last woman's class to be admitted to the university. The class contained an unusually bright lot of girls, who, spurred on by what they considered an injustice to their sex, devoted their intellectual efforts to taking away as many perquisites in the shape of prizes and scholarships as possible.

Miss Julia Lorton, president of the class, proved an excellent choice. Not much of a scholar, she developed a rare talent for management. Upon her election she made a few remarks embodying the desire that the members of the class should beat the men in every field.

"In athletics?" asked a voice. Miss Lorton was staggered for a moment, then bringing her white fist down on the table, said with vigor: "Yes, in athletics."

A burst of laughter followed the announcement, after which it was forgotten till three years had passed. The president had by this time been succeeded by others, but she had become the recognized manager of the class. The college fall term for 1910 had scarcely commenced, when she called half a dozen of her classmates to her room for a conference, and when they were assembled said to them:

"You may remember that when I was elected class president in our freshman year I signified a wish we should beat these dog in the manger students who haven't the brains to take prizes themselves and are unwilling that we should take them, even on the athletic field. Our prize scholars are sure to sweep the board next June, and I have called you together to consult as to a means of beating the men in athletics."

A dozen coral ears were pricked up at once at this daring statement.

"If we haven't the muscle," Miss Lorton continued, "we may at least make the ingenuity to find a way to beat the men, or at least drive them from the field. The football season is at hand. At that game many strength has a greater advantage over woman's physique than any athletic contest. I propose that we select a team from among those of us whose advantage lies rather in our muscles than our brains, and at the finale of the season attempt to win a game."

"Nonsense! Impossible! It wouldn't be proper!" were the words that greeted the proposition.

"All I ask of you," continued the speaker, "is to co-operate with me. We will organize a team. We will not let our object be known till the last moment, then we will challenge the university team, relying on our wits rather than our physical strength to win. At any rate, we may get a revenge."

"Wit won't win where brute strength is needed," remarked Miss Porter.

"Any more than brute strength will win where brains are required," Miss Ripley added, "as is manifest from our sweeping away the prizes and scholarships from these strapping fellows."

"We might weaken them," suggested little Miss Muffins, "by sticking pins into them."

"I have a scheme," said Miss Lorton, "that I propose to put in practice when it comes to the final test."

"What is it?" asked all at once.

"Girls," was the reply given impressively, "there is one faculty we need not flatter ourselves we possess—reticence. I shall not communicate my plan to the men through each and every one of you."

Miss Lorton won the assent of the company, they agreeing to her terms—at least all of them except little Miss Muffins, who declared she could never in the world wait for the denouement.

There were several remarkably strong young women in the class, and one, Mary Honk, who had come from a farm on which her classmates declared she had followed the plow, was five feet eight in height and strong as an ox. Miss Lorton, who organized the team, selected her for the most prominent position and assured the others to the rest of the places as they seemed best fitted.

Since the manager's plan was based upon the wits rather than the strength of the team it was not supposed that training and practice would be adhered to very strictly. The main trou-

The Trial Of A Traveler

"I am a traveling salesman," writes E. E. Youn, E. Berkshire, Vt., "and was often trouble with constipation and indigestion till I began to use Dr. King's New Life Pills, which I have found an excellent remedy." For all stomach, liver or kidney troubles there is nothing better. Only 25 cents at all Druggists.

FOLEY KIDNEY PILLS

FOR BACKACHE KIDNEYS AND BLADDER

ble was to find a ground where they could practice without having the men students ogre and gey them. However, they secured a griddon in a neighboring town, fenced in, and on practice days went there in a hay wagon.

Nevertheless it was not long before the men students learned that the co-eds had organized a football team and were practicing. Then it leaked out that they were intending to challenge the men. Innumerable were the jokes perpetrated at the girls' expense, which luckily they did not hear. Miss Lorton was working with some especial purpose in view, but since she kept her own counsel no one knew what it was. She urged the team to learn the game and changed a few of the strongest, especially some who were fleet runners, to prepare for some real work on the last Saturday in November.

The university team and the woman's college team were in fine practice, there being about two weeks remaining before the end of November. Then a formal challenge passed, which was accepted by the university team captain with great formality, but with the belief that the affair was a joke. Soon after this it was noticed that a change had come over the women students. Up to this time there had appeared no disposition on their part to flirt, but now it was observed that several of the prettiest had abandoned their maidenly reserve and were showing a disposition to be wooed. But what was not especially noticed was that the attraction for them seemed to lie not in the honor men, but in the stalwarts of the football team.

The truth is that the joke attending the proposed game with the girls was overshadowed by a more serious matter. The annual game between Westmoreland and Pompton was to come off on Thanksgiving day. As to the game with the girls on the following Saturday, no one believed it would take place, or, if it did, it would be a sham game intended for a sort of social function. A couple of weeks before Thanksgiving Captain Ashton of the Westmoreland university team began to have trouble with his men. Several of these he most relied on became very lax in their training, and not a practice game was played but one or more men were absent. The captain stormed and threatened and vowed he would resign, but to no effect. The irregularities grew instead of decreasing until during the last week before the great game the condition of the team approached demoralization.

Ashton questioned the big fellows as to what was drawing them, but received no satisfaction. His best man, Tomkins, suddenly—cast the captain into the depths of despair in the foot while cleaning his revolver and thus rendering himself unfit to take his part in the annual game. Wharton, another good man, was called home the day before Thanksgiving by a telegram announcing that he was wanted there immediately. He did not return till the beginning of the next week.

It was only two days before the game that an incident occurred which cast a faint light on what was the matter with the Westmoreland team. Skulpins, who was relied on to do the punting, while his team was out for practice was seen walking on a by-lane with Beatrice Wheaton, one of the prettiest girls in the woman's college. The fact was reported to Ashton, who began to "see through a millstone." But it was too late. His team was obliged to go into the game with Pompton short of several of its best men and with others whose non-attendance upon practice had unfitted them for their parts. It subsequently leaked out that no less than seven of them had the evening before been sumptuously entertained by young ladies of the woman's college. The result was that at the match game the score at the close stood: Pompton, 24; Westmoreland, 0.

This defeat of the Westmorelanders seemed to be especially gratifying to the co-eds. They were observed congratulating each other, and the defeat was celebrated by spreads given in several of the girls' rooms. Four men who had been attentive to four different girls left college on Thanksgiving night, and three out of the four never returned. It was rumored that they had made propositions of marriage and been rejected.

On Friday, the day after Thanksgiving, the captain of the woman's team wrote a note to the captain of the Westmorelanders asking some question pertaining to the game to come off on the morrow. The messenger, returning, announced that the captain's room was locked and bolted. Messengers sent to other members of the team failed to find any one of them. Not a man Jack of them was left in town.

On Saturday evening a notice was posted on the college bulletin board, signed by the captain of the woman's team, claiming the game to have been played that afternoon, since the men's team had run away.

The girls' scheme of revenge was out, and to no one was it plainer in all its details than to Captain Ashton. The triumph of heart over muscle had been complete. Miss Lorton's management had been eminently efficient. She had set the most intellectual girl after the prizes, placed the most muscular on her team, while for the breaking down of the athletes she had brought up her corps of beauty, before which their hearts collapsed like a bursted football.

The class of 1910 was the last woman's class to be graduated at Westmoreland, and the men students swore a great oath that there should never be another.

During the summer months mothers of young children should watch for any unnatural looseness of the bowels. When given prompt attention at this time serious trouble may be avoided. Chamberlain's Colic, Cholera and Diarrhoea Remedy can always be depended upon. For sale by all dealers.

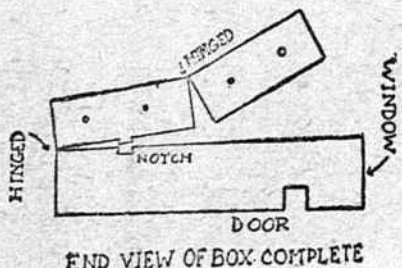
POULTRY

MAKING YOUR OWN BROODER

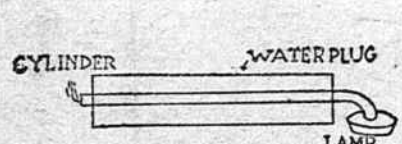
Directions and Illustrations Given of Suitable Shelter for the Little Chickens.

In describing a brooder that she had constructed herself and used successfully, Mrs. Belle Stiles says in the Missouri Valley Farmer:

A box 2 1/2 feet wide by 3 1/2 or 4 feet long is made of matched lumber, eight inches deep inside measure. A box cover six inches deep is hinged to

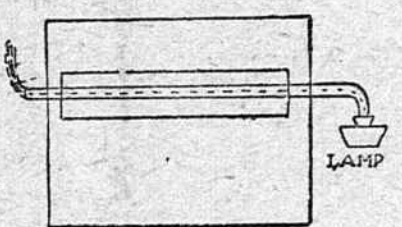


END VIEW OF BOX COMPLETE



Home-Made Brooder.

one side, and is hinged again in the center. A notch is made in each end of the box one-third of the way across from the hinged side, with corresponding notches in the cover, and in these notches rests a cylindrical tank for heating the brooder. Windows should be put in the front, and a door in one end. Small holes should be bored in the ends of the cover for ventilation. The cylinder tank is made of gal-



With Tank in Place.

vanized tin, with a hollow tube through the center of such a size that heat from a lamp can be turned in with an elbow. On the top of the cylinder there should be a screw plug for putting in water. The tank when filled with water is heated by the hot air in the hollow tube. This center tube should be long enough to extend through the brooder box and to the lamp set outside. The box should be carpeted with paper or litter, the tank put in place and filled with boiling water, the lamp put in position and the brooder allowed to warm up before the chicks are put in. When in position the cylinder should be two inches from the bottom. After the heat is up the lamp may be turned very low. If the chicks are too warm the cover may be raised and a stick slipped under the edge to give more air. Don't overcover. Give plenty of warm water in cold weather. Don't overheat. Give plenty of grit. Keep clean. It's a joy to raise chickens by this method, and these brooders if properly cared for will last for years.

NOTES

Make a separate pen for your brood sows and don't have too much straw.

A man who will keep his sheep in a muddy lot has small conception of his duty.

Whitewashing stables makes them lighter, cleaner and much more healthful and sanitary.

When a farmer has had silage for his ewes one winter he hardly knows how to keep them without it.

When horses are first put in a strange barn they will frequently not eat well for perhaps a week.

Noon is a good time to supply the stock with some green stuff, such as cabbages or roots of any kind.

A sheep is the most nervous animal on the farm and get into low condition quickly and recovers slowly.

The Plain Young Man

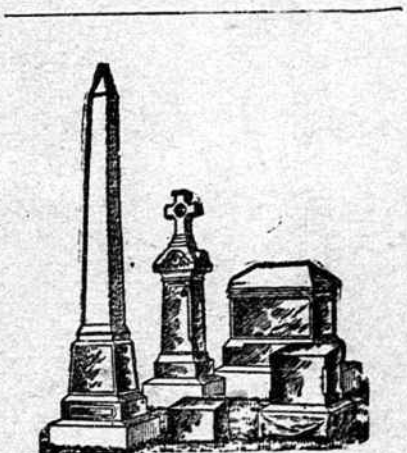
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blissing? Wait till I write a check to go with it." He flapped out a check book and in his big, square handwriting drew a check of four figures. "You will want a honeymoon, of course?" "We're going up to New Brunswick," explained the bridegroom in the same quiet, self-contained manner that had already won Mr. Peddington's admiration.

As they reached the outer door Silas Peddington uttered a sharp exclamation. "By Jove, what about those two chaps who are racing out to Belle Point for Arline's hand? Gee, I can't face them when they come back and find she's married to you, Russell!" "Better come with us on our honeymoon," urged his son-in-law.

"I will!" ejaculated Silas Peddington. And, thrusting his head within another office, he said briskly, to the utter mystification of his clerical force:

"I'll wire any instructions I may have concerning the business. I'm suddenly called away on a honeymoon."



—IF YOU NEED A—

Monument.

Headstone or Marker, get my prices. I will save you money if you need an Iron Fence. I furnish the best for the money. Yours to serve, H. F. LAY, JR.

Agent for The Canton Forge & Machine Works.

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Calls answered day or night.

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THE SEWING MACHINE OF QUALITY.

NEW HOME

NOT SOLD UNDER ANY OTHER NAME.

WARRANTED FOR ALL TIME.

If you purchase the NEW HOME you will have a life asset at the price you pay, and will not have an endless chain of repairs.

Quality Considered it is the Cheapest in the end to buy.

If you want a sewing machine, write for our latest catalogue before you purchase.

The New Home Sewing Machine Co., Orange, Mass.

Blood Was Wrong

All women, who suffer from the aches and pains, due to female ailments, are urged to try Cardui, the reliable, scientific, tonic remedy, for women. Cardui acts promptly, yet gently, and without bad effects, on the womanly system, relieving pain, building up strength, regulating the system, and toning up the nerves. During the past half century, thousands of ladies have written to tell of the quick curative results they obtained, from the use of this well-known medicine.

TAKE CARDUI The Woman's Tonic

Mrs. Jane Callican suffered from womanly trouble for nearly ten years. In a letter from Whiteville, N. C., she says: "I was not able to do my own housework. My stomach was weak, and my blood was wrong. I had backache, and was very weak. I tried several doctors, but they did me no good. I used Cardui for 3 or 4 months, and now I am in the best health I have ever been. I can never praise Cardui enough." It is the best tonic, for women.

Whether seriously sick, or simply weak, try Cardui.

Write to: Ladies' Advisory Dept., Chattanooga Medicine Co., Chattanooga, Tenn., for Special Instructions, and 64-page book, "Home Treatment for Women," sent free. 133

FOLEY KIDNEY PILLS

for backache, rheumatism, kidney or bladder trouble, and urinary irregularities. Foley Kidney Pills are tonic in action, quick in results. Refuse substitutes.